RLA POLYMERS

TDS
Technical Data Sheet

PU850 UV

Polyurethane waterproofing membrane.

RLA PU 850 is a one component, thixotropic, UV stable, under screed, polyurethane waterproofing membrane where viscosity of the liquid is paramount. In applications such as sloped roofing, flashing and details RLA PU 850 cures to form a durable yet elastic membrane with strong adhesion to many types of substrates. RLA PU 850 is fast curing, and is tack-free in less than two hours, with exceptional elasticity. Due to it's thixotropic, hydrophobic and elastomeric nature, RLA PU 850 is the perfect solution to provide excellent waterproofing on vertical and sloped surfaces without running.

RECOMMENDED USES:
- Shower Recesses, Bathrooms, Laundries
- Kitchens
- Retaining walls
- Planter boxes
- Balconies
- Courtyard areas and patios
- Plasterboard, Brick, Steel (suitably primed).
- Wet area wall lining board
- Hardie/CSR sheet flooring
- Light weight aggregate block

FEATURES & BENEFITS:
- Easily applied onto vertical & sloped surfaces with no running OR bubbling.
- Excellent adhesion to most substrates.
- No thinning required.
- Excellent thermal resistance, never turning soft.
- Excellent cold resistance, remaining elastic to -40^{0}c
- No accumulation of humidity under coating (breathable)
- Excellent mechanical properties
- Highly stable, will not bleed through porous materials
- Bitumen free
- Highly elastic and stable
- UV Stable

APPLICATION:
All surfaces to be coated must be firm, clean, dry, sound and smooth. All grease, oil, wax, curing compounds, dust, droppings, loose material, paint and any other contaminants must be removed. Concrete must be allowed to cure for 28 days and cement render and sand/cement screeds must be allowed to cure for 7 days prior to the application of RLA PU 850. Apply on a dry surface with roller, brush or airless spray in one or two coats. Do not leave more than 24 hours between coats

PRIMING:
Apply PU Primer.

MIXING:
Use a low speed (300rpm) mixer.

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscocity	cP	ASTM D2196-86, @25^{0}C	2500-4000
Specific Weight	Gr/cm^{3}	ASTM S1475/ DIN 53217/ ISO 2811, @ 20^{0}C	1.4
Flash point	^{0}C	ASTM D93, closed cup	>42
Tack free time	Hours	-	2-4
Recoat time	Hours	-	4-24
Service temp	^{0}C	-	-40 to 80
Hardness	Shore A	ASTM D2240/ DIN 53505/ ISO R868	70
Tensile strength at break @ 23^{0}C	Kg/cm^{2} (N/mm^{2})	ASTM D412, EN-ISO-527-3	>2
Percent elongation @ 23^{0}C	%	ASTM D412, EN-ISO-527-3	>750
Water vapor transmission	Gr/cm^{3}	ASTM E96 (Water method)	0.8
Adhesion to concrete	Kg/cm^{2} (N/mm^{2})	ASTM D4541	>20 (> 2)

CONCRETE SUBSTRATE CONDITIONS:
- Hardness: R28 = 15MPa
- Humidity: W < 10%
- Temperature: 5-35^{0}C
- Relative Humidity: <85%

LIMITATIONS
- Not recommended for unsound substrates
- Not recommended for waterproofing of swimming pool surfaces that are in contact with chemically treated water
- Not designed to stop a hydrostatic head of water pressure
- Must not be used over damp, wet or contaminated substrates
- Must not be applied if it is raining or if rain is imminent
- To be applied directly over protective coatings
- Not to be used as a wearing surface for foot or vehicle traffic
- Do not apply where the surface temperature is below 10ºC or greater than 35ºC
- Not suitable for direct tiling. APPLICATION OF SCREED REQUIRED prior to tiling

CLEAN UP:
Clean tools and equipment with warm water and detergent while the membrane is still wet.

PACKAGING:
15 Litre pails.

CONSUMPTION:
1.5kg/m²

SHELF LIFE:
12 months in unopened containers when stored in a cool dry and weatherproof environment

AVAILABILITY:
RLA PU 850 is available Australia wide through the RLA Group distributor network. Please contact RLA Group 1800 242 931 to find out where your nearest stockist will be.

TECHNICAL SUPPORT:
RLA Polymers manufactures a comprehensive range of high quality, high performance construction products. In addition, RLA Polymers offers technical support and on-site advice to specifiers, end users and contractors. Please contact your RLA Polymers sales representative or RLA Head Office for this service

DISCLAIMER
The information and any recommendations relating to the application and end-use of all RLA products are provided in good faith based on RLA's knowledge and experience of the products. In applications, the differences in materials, and variances of substrates and actual site conditions can vary such that no warranty in respect of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be taken as inferred either from this information, or from any written recommendations, or from any other advice offered by RLA. The proprietary rights of third parties must be observed. All orders are accepted subject to our sale terms and conditions. All users should always refer to the most recent and up to date issue of the Technical Data Sheet for the product concerned, which is available on request. It is recommended that products should always be properly stored, handled and applied under tested and recommended conditions. PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

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